

## J. TRANSITIONING N1-1 TO OFF/DIAGNOSTIC FROM STANDBY WHILE N1-2 IS PRIMARY

PCS2      1. VERIFY MDM STATES  
Node 1: C&DH: MDM N1-2  
PRIMARY NCS MDM Node 1

√STATE - Primary  
√MDM ID - N1-2

PCS2      Node 1: C&DH: MDM N1-1  
SECONDARY NCS MDM Node 1

√STATE - Standby  
√MDM ID - N1-1

NOTE  
If states are not correct, do not execute this procedure.  
√**MCC**

PCS2      2. DISABLE NCS AUTO RETRY  
Node 1: C&DH: MDM N1-2  
PRIMARY NCS MDM Node 1  
'Software Control'

sel MDM Utilities

Primary\_NCS\_MDM\_Uilities

√Primary\_NCS\_Auto\_Retry\_Inh - X (Inhibited)  
If blank (Enable)  
sel Commands  
**cmd Primary\_NCS\_Inh\_NCS\_Retry Execute**  
√Primary\_NCS\_Auto\_Retry\_Inh - X (Inhibited)

### 3. COMMAND N1-1 TO DIAGNOSTIC

NOTE  
When MDM N1-1 is commanded to Diagnostic, the following heaters are commanded to their Default State which is Off.  
1. PMA 1 Shell Heaters 1A, 3A, 4A, and 5A  
2. Node 1 Shell Heaters 1A --- 9A  
3. MDM N1-1 Operational Heater  
4. MDM N1-2 Survival Heater

PCS2

Node 1: C&DH: MDM N1-1

**SECONDARY NCS MDM Node 1**

'Software Control'

sel MDM FDIR

√Second\_NCS\_Cmd\_Xsitn\_to\_Dgnstc\_Inh - blank (Enable)

If X (inhibited)

'MDM Major State:'

sel Commands

**cmd** N1-1\_MDM\_Cmd\_Xsitn\_Dgnstc\_State\_Arm **Execute**

'Software Control'

sel MDM FDIR

√Second\_NCS\_Cmd\_Xsitn\_to\_Dgnstc\_Inh - blank (Enable)

'MDM Major State:'

sel Commands

**cmd** N1-1\_MDM\_Xsitn\_Dgnstc\_State **Execute**

4. VERIFY N1-1 IS IN DIAGNOSTIC

PCS2

Node 1: C&DH: MDM N1-1

**SECONDARY NCS MDM Node 1**

√Frame Count - static

PCS2

Node 1: C&DH: MDM N1-2

**PRIMARY NCS MDM Node 1**

sel Transmit Mode Code

**Primary\_NCS\_Transmit\_Mode\_Code**

sel Primary NCS Xmt Mode Code Commands

**cmd** Xmt\_Stat\_Word\_Tmpl

enter Bus ID - 2

enter RT Address - 6 **Execute**

√Subsystem Flag Set - X (Set)

If Subsystem Flag Bit is set, N1-2 MDM is in Diagnostic State and is ready to accept diagnostic commands.

If transitioning N1-1 to Diagnostic >>

If powering N1-1 off, go to step 5.

5. POWERING OFF N1-1 MDM

NOTE

When MDM N1-1 is unpowered, the N1-1 Survival Heater is required to maintain the MDM within temperature limits.

PCS1

Node 1: C&DH: MDM N1-2

PRIMARY NCS MDM Node 1

'N1-1 Survival'

√MDM N1-1 Surv Htr Availbty - Ena Ops

√MDM N1-1 Surv Htr Health Stat - Operational

Node 1: C&DH: MDM N1-1

SECONDARY NCS MDM Node 1

'RPCM \_N1RS1\_A'

sel RPC 11 (Nod1\_1\_MDM)

RPCM \_N1RS1\_A\_RPC\_11 Detail

sel Commands

**cmd** Open **Execute**

√Position - Op